

## Structural Organisation In Animals MCQ

1. The buccal cavity of the earthworm leads to the \_\_\_\_\_

- a) gizzard
- b) esophagus
- c) pharynx
- d) anus

**Answer: c**

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2. Identify the correct pathway of food ingested by an earthworm.

- a) Mouth→Pharynx→Esophagus→Gizzard
- b) Mouth→Esophagus→Pharynx→Gizzard
- c) Mouth→Esophagus→Gizzard→Pharynx
- d) Mouth→Pharynx→Gizzard→Esophagus

**Answer: a**

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3. What is the function of gizzard in earthworm?

- a) Secretion of digestive enzymes
- b) Grinding soil particles and leaves
- c) Absorption of water
- d) It is a respiratory structure

**Answer: b**

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4. Where are the calciferous glands of the earthworm present?

- a) Esophagus
- b) Gizzard
- c) Stomach
- d) Intestine

**Answer: c**

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5. Which segments of the earthworm contain the stomach?

- a) 9th to 14th

- b) 23rd to 25th
- c) 16th to 18th
- d) 5th to 8th

**Answer: a**

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6. Which segment of the earthworm contains the intestinal caecum?

- a) 25th
- b) 23rd
- c) 24th
- d) 26th

**Answer: d**

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7. What is the function of typhlosole in earthworm?

- a) Mechanical breakdown of food
- b) Secretes digestive enzymes
- c) Increases the surface area for absorption
- d) Excretes waste products

**Answer: c**

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8. Which segments of the earthworm contain the blood glands?

- a) 9th to 12th
- b) 16th to 18th
- c) 23rd to 25th
- d) 4th to 6th

**Answer: d**

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9. Respiratory exchange in earthworms takes place through \_\_\_\_\_

- a) gills
- b) mouth
- c) body surface
- d) lungs

**Answer: c**

10. What is the excretory organ in earthworm known as?

- a) Gizzard
- b) Typhlosole
- c) Nephridium
- d) Setae

**Answer: c**

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11. Which of the following is not a type of nephridia present in earthworm?

- a) Intestinal
- b) Septal
- c) Integumentary
- d) Pharyngeal

**Answer: a**

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12. Which of the following is not true about nephridia in earthworm?

- a) They are excretory organs
- b) They do not regulate the composition of body fluids
- c) They are of three types
- d) They regulate the volume of body fluids

**Answer: b**

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13. Which of the following does the nervous system of the earthworm not contain?

- a) Nerve ring
- b) Nerve cord
- c) Ganglia
- d) Brain

**Answer: d**

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14. At which of these segments does the nerve cord of the earthworm divide into two parts?

- a) 5th, 6th
- b) 8th, 9th
- c) 3rd, 4th

d) 11th, 12th

**Answer: c**

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15. Which of these statements is true about nerve ring?

- a) It has only sensory function
- b) It has only motor function
- c) It is present on the dorsal side
- d) It is present on the ventral side

**Answer: c**

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16. Which of these is not a function of the sensory system of earthworms?

- a) Visualize food
- b) Distinguish light intensities
- c) Detect vibrations
- d) React to chemical stimuli

**Answer: a**

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17. Which of these statements regarding the sensory system of earthworm is false?

- a) Eyes are absent
- b) The sense organs are located posteriorly
- c) Taste receptors are present
- d) Receptor cells help to detect vibrations

**Answer: b**

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18. How many testes does Pheretima possess?

- a) 1
- b) 2
- c) 4
- d) 6

**Answer: c**

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19. The common prostate and spermatic duct of earthworms is known as \_\_\_\_\_

- a) vasa deferentia

- b) vasa efferentia
- c) spermathecae
- d) oviduct

**Answer: a**

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20. What is the role of spermathecae?

- a) Sperm is produced here at the time of mating
- b) It is an accessory organ
- c) It is vestigial
- d) It stores spermatozoa during mating

**Answer: d**

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21. How many ovaries are present in an earthworm?

- a) 4
- b) 1
- c) 2
- d) 6

**Answer: c**

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22. In earthworms, ovarian funnels open into the \_\_\_\_\_

- a) spermathecae
- b) female genital pore
- c) ovary
- d) oviduct

**Answer: d**

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23. What is exchanged during mating in earthworms?

- a) Typhlosole
- b) Ova
- c) Spermatophores
- d) Cocoons

**Answer: c**

24. Where does fertilization occur for the earthworm?

- a) Ovary
- b) Spermathecae
- c) Cocoon
- d) Female genital pore

**Answer: c**

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25. Using earthworms to increase soil fertility is called \_\_\_\_\_

- a) vermicomposting
- b) sericulture
- c) apiculture
- d) pisciculture

**Answer: a**

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26. Which of these statements is true about earthworm?

- a) They are harmful for agriculture
- b) They are used as fishing bait
- c) They decrease soil fertility
- d) They cannot live in burrows

**Answer: b**

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27. To which class and phylum does Periplaneta belong?

- a) Class – Insecta; Phylum – Annelida
- b) Class – Reptilia; Phylum – Arthropoda
- c) Class – Amphibians; Phylum – Annelida
- d) Class – Insecta; Phylum – Arthropoda

**Answer: d**

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28. Cockroach is a(n) \_\_\_\_\_

- a) herbivore
- b) carnivore
- c) omnivore

d) scavenger

**Answer: c**

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29. Which of the following statements is false about cockroaches?

- a) They are nocturnal
- b) They belong to phylum Arthropoda
- c) They are scavengers
- d) They are vectors of diseases

**Answer: c**

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30. What are the regions of the body of the cockroach?

- a) Head, Thorax, Abdomen
- b) Head, Thorax
- c) Head, Abdomen
- d) Head, Body, Tail

**Answer: a**

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31. What material is the exoskeleton of the cockroach made of?

- a) Calcium
- b) Chitin
- c) Collagen
- d) Cellulose

**Answer: b**

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32. The cockroach body is covered by an exoskeleton made of \_\_\_\_\_

- a) pronotum
- b) tegmina
- c) sclerites
- d) labrum

**Answer: c**

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33. What is the membrane that joins tergites and sternites in cockroach?

- a) Arthroal membrane

- b) Arthropodal membrane
- c) Vesicular membrane
- d) Capillary membrane

**Answer: a**

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34. The fusion of how many segments makes up the head part of cockroach?

- a) 4
- b) 5
- c) 2
- d) 6

**Answer: d**

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35. Which of these is true about antennae of cockroaches?

- a) They have 2 pairs
- b) They lack sensory receptors
- c) They arise from membranous sockets
- d) They are present in the thorax region

**Answer: c**

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36. Which of these structures act as the tongue of the cockroach?

- a) Labrum
- b) Maxilla
- c) Labium
- d) Hypopharynx

**Answer: d**

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37. Which of these structures is the upper lip of the cockroach?

- a) Maxilla
- b) Labium
- c) Labrum
- d) Mandible

**Answer: c**

38. Which of these is not a division of thorax in a cockroach?

- a) Prothorax
- b) Metathorax
- c) Bithorax
- d) Mesothorax

**Answer: c**

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39. How many legs are there in each thoracic segment of a cockroach?

- a) Two
- b) Four
- c) Six
- d) One

**Answer: a**

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40. The first pair of wings of cockroach arises from \_\_\_\_\_

- a) prothorax
- b) mesothorax
- c) metathorax
- d) abdomen

**Answer: b**

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41. What structure of the cockroach is called the tegmina?

- a) Hindwings
- b) Thorax
- c) Tongue
- d) Forewings

**Answer: d**

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42. Which of these is characteristic of hindwings of a cockroach?

- a) Thick, Smooth
- b) Opaque, Leathery
- c) Membranous, Transparent

d) Moist, Thick

**Answer: c**

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43. How many segments is the abdomen of a cockroach divided into?

a) 3

b) 6

c) 10

d) 2

**Answer: c**

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44. What is the shape of the seventh sternum of the female cockroach?

a) Boat – shaped

b) Triangular

c) Oval

d) Irregular

**Answer: a**

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45. Which of these pairs of abdominal segments are a part of brood pouch of female cockroach?

a) 1st, 2nd

b) 8th, 9th

c) 3rd, 4th

d) 11th, 12th

**Answer: b**

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46. Where are spermathecal pores located in cockroach?

a) Maxilla

b) Gonapophysis

c) Brood pouch

d) Anal cerci

**Answer: c**

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47. Which of these structures is dorsal in male cockroach?

a) Anus

- b) Male genital pore
- c) Gonapophysis
- d) Foreleg

**Answer: a**

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48. Which of these structures is present in male cockroaches only?

- a) Tegmina
- b) Genital pouch
- c) Anal cerci
- d) Anal style

**Answer: d**

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49. In which abdominal segment are the anal cerci present in cockroach?

- a) 8th
- b) 6th
- c) 10th
- d) 7th

**Answer: c**

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50. Which body system is the proventriculus of cockroach a part of?

- a) Nervous system
- b) Circulatory system
- c) Digestive system
- d) Reproductive system

**Answer: c**

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51. The teeth of the gizzard in cockroach is composed of \_\_\_\_\_

- a) calcium
- b) cellulose
- c) chitin
- d) cellobiose

**Answer: c**

52. Which of these is not true about hepatic caeca in cockroach?

- a) It lies below the gastric caeca
- b) It secretes digestive juices
- c) It is composed of blind tubules
- d) It is located between the foregut and midgut

**Answer: a**

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53. Where are the Malpighian tubules present in cockroach?

- a) Before foregut
- b) Between midgut and hindgut
- c) Between foregut and midgut
- d) After hindgut

**Answer: b**

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54. What is the function of Malpighian tubules in cockroach?

- a) Locomotion
- b) Circulation
- c) Digestion
- d) Excretion

**Answer: d**

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55. Which of these is not a division of hindgut in cockroach?

- a) Ileum
- b) Colon
- c) Duodenum
- d) Rectum

**Answer: c**

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56. Which of these characteristics is true about the vascular system of cockroach?

- a) Closed type
- b) Red hemolymph
- c) Poorly developed blood vessels

d) Haemocoel does not contain visceral organs

**Answer: c**

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57. Which of these structures is involved in blood circulation in cockroach?

- a) Ostia
- b) Malpighian tubules
- c) Ommatidia
- d) Phallomere

**Answer: a**

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58. Which of these statements is true about the respiratory system of cockroach?

- a) Exchange of gases takes place through active transport
- b) Sphincters are present at the openings of spiracles
- c) There are 8 pairs of spiracles
- d) Spiracles are absent on the lateral sides of the body

**Answer: b**

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59. Cockroaches are \_\_\_\_\_

- a) ammonotelic
- b) ureotelic
- c) uricotelic
- d) annelids

**Answer: c**

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60. Which of these structures do not help in excretion in cockroaches?

- a) Ostia
- b) Fat body
- c) Nephrocytes
- d) Uricose gland

**Answer: a**

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61. How many ganglia lie in the thorax and abdomen respectively in cockroach?

- a) 3, 6

- b) 6, 3
- c) 2, 4
- d) 4, 2

**Answer: a**

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62. For how long will a cockroach survive if its head is cut off?

- a) One day
- b) Two weeks
- c) One week
- d) Two days

**Answer: c**

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63. Which of these is not a sense organ in cockroach?

- a) Maxillary palps
- b) Labial palps
- c) Anal cerci
- d) Ostia

**Answer: d**

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64. Cockroaches are \_\_\_\_\_

- a) hermaphrodite
- b) monoecious
- c) dioecious
- d) bisexual

**Answer: c**

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65. Which of these is an external organ in male cockroach?

- a) Gonopore
- b) Ejaculatory duct
- c) Phallomere
- d) Seminal vesicle

**Answer: c**

66. How many ovarioles are present in a female cockroach?

- a) 16
- b) 8
- c) 10
- d) 6

**Answer: a**

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67. Cockroaches are \_\_\_\_\_

- a) ametabolous
- b) paurometabolous
- c) hemimetabolous
- d) holometabolous

**Answer: b**

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68. Which of these statements is true about frog?

- a) It lives both on land and in sea water
- b) They cannot survive in freshwater
- c) Rana tigrina is a rare species
- d) They belong to class Amphibia

**Answer: d**

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69. Frogs are \_\_\_\_\_

- a) homeothermic
- b) warm-blooded
- c) poikilothermic
- d) heterothermic

**Answer: c**

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70. Which of these methods are utilized by frogs for protection?

- a) Speed
- b) Spikes
- c) Mimicry

d) Playing dead

**Answer: c**

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71. Which of these statements is false about frogs?

- a) They do not aestivate
- b) They change color
- c) They live in burrows
- d) They hibernate

**Answer: a**

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72. Which of these describes the skin of frog?

- a) Thick, leathery
- b) Smooth, slippery
- c) Hard, dry
- d) Thin, membranous

**Answer: b**

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73. Which of these are the divisions of the body of a frog?

- a) Head, trunk, abdomen
- b) Head, thorax, abdomen
- c) Head, trunk
- d) Head, thorax, trunk

**Answer: c**

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74. Which of these structures protects the eyes of the frog in water?

- a) Nictitating membrane
- b) Tympanum
- c) Bidder's canal
- d) Cloaca

**Answer: a**

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75. Which of these structures in frog receive sound signals?

- a) Webbed feet

- b) Skin
- c) Nictitating membrane
- d) Tympanum

**Answer: d**

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76. How many digits does the forelimb and hindlimb of frog have respectively?

- a) 3, 4
- b) 5, 4
- c) 4, 5
- d) 4, 3

**Answer: c**

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77. Which of this is not a distinguishing feature of a male frog?

- a) Narrow abdomen
- b) Copulatory pad
- c) Vocal sacs
- d) Moist, slippery skin

**Answer: d**

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78. Where are the copulatory pads in male frog present?

- a) Second digit of the hindlimbs
- b) First digit of the hindlimbs
- c) First digit of the forelimbs
- d) Second digit of the forelimbs

**Answer: c**

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79. Frogs are \_\_\_\_\_

- a) herbivores
- b) omnivores
- c) carnivores
- d) scavengers

**Answer: c**

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80. Which of these characteristics of frog is the reason for its short alimentary canal?

- a) Carnivorous
- b) Sexual dimorphism
- c) Amphibian
- d) Chordate

**Answer: a**

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